## ABSTRACT OF THE DISCLOSURE

A catalyst for the full oxidation of volatile organic compounds (VOC), particularly hydrocarbons, and of CO to CO<sub>2</sub>, comprising:

a non-stoichiometric crystalline compound conventionally designated by a formula which corresponds to  $A_{14}Cu_{24}O_{41}$  (I), where A is Sr or a solid solution of Sr with alkaline-earth metals, alkaline metals, lanthanides; or a non-stoichiometric crystalline compound conventionally designated by a formula which corresponds to  $B_4Cu_5O_{10}$  (II), where B is Ca or a solid solution of Ca with alkaline-earth metals, alkaline metals, lanthanides; or mixtures thereof; and in that it is prepared in a form which has a large specific surface area, preferably larger than 25 m<sup>2</sup>/g;

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a method for preparing the catalysts; their use in methods for the full oxidation of VOC and of CO to CO<sub>2</sub>; and the oxidation methods.